

**WHAT IS CLAIMED IS:**

1. A content reservation and pickup system, where multiple access points as radio relay stations for a wireless LAN are located at multiple spots that are mutually apart from each other, and a radio communication area of each access point is established in a coverage of radio wave transmitted from the access point, in said content reservation and pickup system, when a terminal enters a radio communication area of a first access point which is one of said multiple access points, said terminal gains access to said first access point to reserve acquisition of a selected content via the Internet, after the reservation,

said first access point comprising:

an input module that inputs content identification information for identifying the selected content for pickup, location specification information for specifying a location outside the radio communication area of said first access point as a pickup location of the selected content, and receiver identification information for identifying a person who picks up the selected content, through an access from said terminal entering the radio communication area of first access point;

a specification module that retrieves a radio communication area including the location specified by the input location specification information and specifies an access point that covers the retrieved radio communication area as a second access point; and

an information transmission module that maps the input receiver identification information to information on the selected content for pickup and transmits the mapped information to said specified second access point via the Internet,

5        said second access point comprising:

a storage module that stores the selected content for pickup, which is acquired through an access to a Web server on the Internet based on the content identification information and is mapped to the receiver identification information;

10        an authentication module that requests input of the receiver identification information in response to an access from any terminal, and authenticates the access when the input receiver identification information is identical with the stored receiver identification information; and

15        a content transmission module that transmits the selected content, which is stored as mapped to the receiver identification information, to said terminal authenticated by said authentication module.

20        2. A content reservation and pickup system in accordance with claim 1, wherein said information transmission module transmits the content identification information as the information on the selected content for pickup, and

said second access point further comprising:

25        a content fetch module that gains access to the Web server connecting with the Internet based on the input content identification information, and fetches the selected content

for pickup prior to a movement of said authenticated terminal into the radio communication area of said second access point.

3. A content reservation and pickup system in accordance  
5 with either one of claims 1 and 2, wherein said input module inputs hardware inherent information for identifying said terminal that picks up the content, instead of the receiver identification information.

10 4. An access point as a radio relay station for a wireless LAN that transmits radio wave of a predetermined frequency and, when a terminal enters a radio communication area established in a coverage of the transmitted radio wave, connects said terminal to the Internet in response to a predetermined  
15 instruction from said terminal, said access point comprising:

an input module that inputs content identification information for identifying the selected content for pickup and receiver identification information for identifying a receiver who picks up the selected content, through an access  
20 from said terminal entering the radio communication area;

an information transmission module that accepts reservation of the selected content for pickup in response to input by said input module, and transmits the input content identification information and receiver identification  
25 information to another access point via the Internet;

an acquisition module that, in response to input of the content identification information and the receiver

identification information transmitted from another access point, gains access to a Web server on the Internet to acquire the reserved content for pickup based on the input content identification information;

5           a storage module that stores the acquired content, which is mapped to the receiver identification information;

          an authentication module that requests input of the receiver identification information in response to an access from any terminal entering the radio communication area, and  
10       authenticates the access when the input receiver identification information is identical with the stored receiver identification information; and

          a content transmission module that transmits the selected content, which is stored as mapped to the receiver identification  
15       information, to said terminal authenticated by said authentication module.

5. A content reservation and pickup method comprising the steps of:

20       providing multiple access points as radio relay stations for a wireless LAN at first spot and second spot that are mutually apart from each other, a first radio communication area which is a coverage of radio wave transmitted from a first access point located at the first spot, and a second radio communication  
25       area which is a coverage of radio wave transmitted from second access point located at the second spot;

          allowing access from a terminal entering the first radio

communication area to said first access point, so as to input  
content identification information for identifying the selected  
content for pickup, location specification information for  
specifying a location in the second radio communication area  
5 as a pickup location of the selected content, and receiver  
identification information for identifying a person who picks  
up the selected content;

causing either of said first access point and said second  
access point to gain access to a Web server on the Internet  
10 and acquire the selected content for pickup, based on the input  
content identification information;

causing said second access point to store the acquired  
content, which is mapped to the receiver identification  
information;

15 requesting input of the receiver identification  
information in response to an access from any terminal entering  
the second radio communication area to said second access point  
after the storage, and authenticating the access when the input  
receiver identification information is identical with the stored  
20 receiver identification information; and

transmitting the selected content, which is stored as mapped  
to the receiver identification information, to said  
authenticated terminal.

25 6. A data pickup system, where multiple access points as  
radio relay stations for a wireless LAN are located at multiple  
spots that are mutually apart from each other, and a radio

communication area of each access point is established in a coverage of radio wave transmitted from the access point, in said data pickup system, when a terminal enters a radio communication area of one access point, said terminal gains  
5 access to said access point to set a storage space for data acquired via a communication line, in a memory device connecting with another access point, which is different from said one access point,

said one access point comprising:

10 an input module that inputs location specification information for specifying a location outside the radio communication area of said one access point as a pickup location of the data and receiver identification information for identifying a person who picks up the data, through an access  
15 from said terminal entering the radio communication area of said one access point;

a specification module that retrieves a radio communication area including the location specified by the input location specification information and specifies an access point that  
20 covers the retrieved radio communication area as a second access point; and

an information transmission module that transmits the input receiver identification information to said specified second access point,

25 said second access point comprising:

a storage space setting module that sets a storage space to store the receiver identification information and data mapped

to the receiver identification information and acquired via the communication line, in a memory device connecting with said second access point;

an authentication module that requests input of the receiver  
5 identification information in response to an access from any terminal, and authenticates the access when the input receiver identification information is identical with the stored receiver identification information; and

a data transmission module that transmits the data, which  
10 is stored in the storage space as mapped to the receiver identification information, to said terminal authenticated by said authentication module.

whereby said authenticated terminal which enters said radio communication area of said second access point after the setting,  
15 picks up the data stored in the storage space,

7. A data pickup system in accordance with claim 6, wherein the communication line is any one of an exclusive communication line, the Internet, and a closed net virtually formed on a network  
20 like the Internet.